



# Recombinant Protein Technical Manual

## Recombinant Human C1D Protein (GST Tag)

RPES2798

### Product Data:

**Product SKU:** RPES2798

**Size:** 20µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q13901

### Protein Information:

**Molecular Mass:** 43.2 kDa

**AP Molecular Mass:** 43 kDa

**Tag:** N-GST

**Bio-activity:**

**Purity:** > 80 % as determined by reducing SDS-PAGE.

**Endotoxin:** Please contact us for more information.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.5

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** hC1D;LRP1;Rrp47;SUN-CoR;SUNCOR

## Immunogen Information:

**Sequence:** Met 1-Ser 141

## Background:

C1D nuclear receptor corepressor belongs to the C1D family. It is a DNA binding and apoptosis-inducing protein. C1D nuclear receptor corepressor interacts with TSNAX and DNA-PKcs. It acts as a corepressor for the thyroid hormone receptor. It is thought that C1D nuclear receptor corepressor regulates TRAX/Translin complex formation. It is expressed in kidney, heart, brain, spleen, lung, testis, liver and small intestine. It plays a role in the recruitment of the RNA exosome complex to pre-rRNA to mediate the 3'-5' end processing of the 5.8S rRNA; this function may include MPHOSPH6. It potentiates transcriptional repression by NR1D1 and THRB. C1D nuclear receptor corepressor can activate PRKDC not only in the presence of linear DNA but also in the presence of supercoiled DNA. It also can induce apoptosis in a p53/TP53 dependent manner.